



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/W.No.04/KRIDL/CSR-10/978g/CEMENT/2015-16

Date: 21.10.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
* AGENCY	:	Technical Manager (West), KRIDL, Bangalore.
* NAME OF THE WORK	:	Construction of library building at Yelahanka New Town of Ward No. 04 in Yelahanka New Town Sub Division, BBMP, Bangalore.
REFERENCE	:	BBMP/AEE/YNTSD/517/2015-16 Dated : 20.10.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	20.10.2015
PERIOD OF TESTING	:	20.10.2015 to 21.10.2015

The results of the tests conducted on the cement sample are as follows:

SL No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	465 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

AE L-4 Note:

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- ⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.
- ⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: CTCE/BBMP/W.No.04/KRIDL/CSR-10/978g/SAND-Gradation/2015-16

: 21.10.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency : Technical Manager (West), KRIDL, Bangalore.
* Name of Work : Construction of library building at Yelahanka New Town of Ward No. 04 in Yelahanka New Town Sub Division, BBMP, Bangalore.
Reference : BBMP/AEE/YNTSD/517/2015-16 Dated : 20.10.2015
Technical Reference : IS : 2386 Part 1 - 1963 RA-2007
Sample ID : Fine Aggregates
Sample Received on : 20.10.2015
Date of Testing : 21.10.2015

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.65	90-100	90-100	90-100	95-100
2.36	77.38	60-95	75-100	85-100	95-100
1.18	58.22	30-70	55-90	75-100	90-100
600 Micron	39.35	15-34	35-59	60-79	80-100
300 Micron	11.72	5-20	8-30	12-40	15-50
150 Micron	2.34	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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AE W-4

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Job No.: CTCE/BBMP/W.No.04/KRIDL/CSR-10/978g/AGG/GR/2015-16

: 21.10.2015

TEST REPORT ON COARSE AGGREGATES

* Customer : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency : Technical Manager (West), KRIDL, Bangalore.
* Name of Work : Construction of library building at Yelahanka New Town of Ward No. 04 in Yelahanka New Town Sub Division, BBMP, Bangalore.
Reference : BBMP/AEE/YNTSD/517/2015-16 Dated : 20.10.2015
Technical Reference : IS : 2386 Part 1 -1963 RA-2007
Sample ID : Coarse Aggregates (40mm)
Sample Received on : 20.10.2015
Date of Testing : 21.10.2015

Total Wt. of Aggregates in gms= 7000

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.97	95-100	85-100
20	40.71	30-70	0-20
10	16.69	10-35	0-5
4.75	1.73	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.04/KRIDL/CSR-10/978g/CC Solid Block/2015-16

26.10.2015

TEST REPORT ON CEMENT CONCRETE SOLID BLOCKS

* Customer : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

* Agency : Technical Manager (West), KRIDL, Bangalore.

* Name of the Work : Construction of library building at Yelahanka New Town of Ward No. 04 in Yelahanka New Town Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/YNTSD/517/2015-16 Dated : 20.10.2015

Sample Received on : 20.10.2015

Date of Testing : 26.10.2015

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm²

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm ²)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	34.25	262.8	3.29	Minimum required Compressive Strength of Individual Units 3.20 N/mm ²
2	Block 2	32.69	266.4	3.33	
3	Block 3	33.74	264.9	3.31	
4	Block 4	33.52	261.7	3.27	
5	Block 5	32.59	265.6	3.32	
6	Block 6	34.28	264.4	3.31	
7	Block 7	32.64	262.7	3.28	
8	Block 8	33.29	266.6	3.33	

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Job No: CTCE/BBMP/W.No.04/KRIDL/CSR-10/978g/CUBE/2015-16

27.11.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

* Agency : Technical Manager (West), KRIDL, Bangalore.

* Name of the work : Construction of library building at Yelahanka New Town of Ward No. 04 in Yelahanka New Town Sub Division, BBMP, Bangalore.

Reference : BBMP/AEE/YNTSD/517/2015-16 Dated : 20.10.2015

* Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M₁₅

Compressive Strength as on : 28th day

Sample Received on : 27.11.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	30.10.2015	27.11.2015	8.153	364.8	16.21
2	30.10.2015	27.11.2015	8.247	396.4	17.62
3	30.10.2015	27.11.2015	8.359	378.6	16.83

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